Dimitrios Stampoulis

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(Last updated: February, 2015)

I. PERSONAL INFORMATION

Date of Birth : August 14, 1980
Place of Birth : Athens, Greece
Citizenship : Greek
Gender : Male
Marital Status : Single

II. EDUCATION

2009 - 2014 **Ph.D. Environmental Engineering**
Department of Civil and Environmental Engineering
University of Connecticut (UConn), Storrs CT
Advisor: Dr. Emmanouil N. Anagnostou
GPA: 3.88/4

2007 - 2009 **M.Sc. Environmental Sciences**
Department of Biology and Environmental Sciences
University of New Haven (UNH), West Haven CT
Advisor: Dr. Saion Sinha
GPA: 3.73/4

1999 - 2005 **B.S. & M.Sc.**
Department of Crop Science
Agricultural University of Athens (AUA), Athens Greece
Specialization: Plant Protection & Environment
GPA: 7.29/10

III. RESEARCH EXPERTISE & WORK EXPERIENCE

Jet Propulsion Laboratory (JPL) NASA
Postdoctoral fellow
2014 - present

- Modeling of hydrologic extremes with applications in agriculture and ecology
- Ecohydrological research using remote sensing Earth observations
- Remote sensing in climatology/meteorology

University of Connecticut
Research assistant
2009 - 2014

- Satellite rainfall product validation for various levels of geomorphologic complexity and for different satellite products
- Satellite error characterization for different rainfall types over complex terrain
- Effects of satellite-based rainfall product resolution on hydrologic modeling skill at various scales

University of Connecticut
Teaching assistant
Jan. 2012 - May 2012

- Environmental Engineering Laboratory – supervision of undergraduate lab exercises

Jet Propulsion Laboratory (JPL) NASA
Visiting scholar
June - Aug. 2011 & June 2012 - Jan. 2013

- Applications of remote sensing in ecology – indirect remote sensing of biodiversity
- Combined retrieval of soil moisture using TRMM PR and TMI measurements

University of New Haven
Research assistant
2007 - 2009

- Environmental applications of Geographic Information Systems (GIS)
- Carbon nanotube (CNT) production using Chemical Vapor Deposition (CVD)

Connecticut Agricultural Experiment Station (CAES) (New Haven, Connecticut)
June 2008 - June 2009

- Environmental implications of nanotechnology (phytotoxicity of nanoparticles to plants) (**Thesis for M.Sc.**)

June 2008 - Aug. 2008

- Volunteering technical assistance in a phytoremediation project (field & lab work)

Benaki Phytopathological Institute (Athens, Greece)

June - Aug. 2001 & June - Aug. 2002 & Sept. 2004 - Aug. 2005

- Insect microbiology & pathology (practical training)
- Integrated protection of stored products (practical training)
- Biological control of stored product insect pests (experiments conducted using entomopathogenic fungal strains (*Beauveria bassiana*) on *Sitophilus sp*., *Tribolium sp*., *Rhyzopertha dominica*) (**Thesis for B.S.**)

IV. PEER-REVIEWED PUBLICATIONS

Stampoulis D., Andreadis M. K., Granger L. S., Fisher B. J., Turk J. F., Behrangi A., Das N. N., Ines V. A. (2015) Assessing the hydrologic vulnerability and adaptive capacity at regional scales from space. *Remote Sensing of Environment*, (Conditionally accepted)

Stampoulis D., Haddad S. Z., & Anagnostou N. E. (2014). Assessing the drivers of biodiversity in Madagascar by quantifying its hydrologic properties at the watershed scale. *Remote Sensing of Environment*, 148, 1:15

Stampoulis D., Anagnostou N.E., Nikolopoulos I. E. (2013). Assessment of high-resolution satellite-based rainfall estimates over the Mediterranean during heavy precipitation events. *Journal of Hydrometeorology*, 14, 1500-1514

Mei Y., Anagnostou N. E., **Stampoulis D.**, Nikolopoulos I. E., Borga M., Vergara H. J., Rainfall organization control on the flood response of mild-slope basins. *Journal of Hydrology* (2013), doi:http://dx.doi.org/10.1016/j.jhydrol.2013.12.013

Vergara H., Hong Y., Gourley J. J., Anagnostou N.E., Maggioni V., **Stampoulis D.**, & Kirstetter E. P. (2013). Effects of Resolution of Satellite-based Rainfall Estimates on Hydrologic Modeling Skill at Different Scales. *Journal of Hydrometeorology*, 15: 593:613

Maggioni V., Vergara H., Anagnostou N.E., Gourley J. J., Hong Y., & **Stampoulis D.** (2013). Investigating the applicability of Error Correction Ensembles of Satellite Rainfall Products in River Flow Simulations. *Journal of Hydrometeorology*, 14: 1194-1211

Stampoulis D. & Anagnostou N. E. (2012). Evaluation of Global Satellite Rainfall Products over Continental Europe. *Journal of Hydrometeorology*, 13: 588-603

Stampoulis D., Sinha K. S., & White C. J. (2009). Assay-Dependent Phytotoxicity of Nanoparticles to Plants. *Journal of Environmental Science & Technology*, 43:24, 9473-9479

V. SELECTED PRESENTATIONS

Quantifying the resilience of vegetation and soil moisture during dry spells using satellite remote sensing
Presented orally at the 2014 American Geophysical Union (AGU) Fall meeting held in San Francisco, CA, USA

Radar-guided radiometer downscaling for combined TMI/PR soil moisture retrieval
Presented as a poster at the 2013 American Geophysical Union (AGU) Fall meeting held in San Francisco, CA, USA

Quantifying the non-linearity of the response of Malagasy watersheds to precipitation anomalies
Presented orally at the 2012 American Geophysical Union (AGU) Fall meeting held in San Francisco, CA, USA

Quantifying the non-linearity of the response of the ecology of Malagasy watersheds to sustained precipitation anomalies
Presented as a poster at the 2011 NASA Carbon & Cycle Ecosystems Joint Science Workshop

Assay-dependent phytotoxicity of nanoparticles to plants
Presented as a poster at the 2009 International Conference on the Environmental Implications and Applications of Nanotechnology held at the University of Massachusetts in Amherst, MA

VI. JOURNAL PEER-REVIEW SERVICE

Reviewer for: Environmental Science & Technology
Jounal of Hydrometeorology
Journal of Hydrology
Stochastic Environmental Research & Risk Assessment
Bentham Science Publishers

VII. PROFESSIONAL MEMBERSHIPS & AWARDS

- American Geophysical Union (AGU) member (2014)
- 2009-2010 "Outstanding paper of the Year Award" by Quinnipiac University Sigma Xi Chapter for "Assay-Dependent Phytotoxicity of Nanoparticles to Plants"

VIII. TECHNICAL EXPERTISE

- Operating systems: Linux, Windows, MacOS
- Programming languages: Matlab (advanced), Python (advanced), Fortran, C, C++, SQL, Unix shell scripting, HTML
- Technical software: ArcGIS, GRASS, GIS, PostGIS, IDL/ENVI, GeoServer
- Hydrologic modeling: Variable Infiltration Capacity (VIC)
- Statistical programs: NCSS, SPSS, MVSP, PAST, SURFER
- Microscopy: Atomic Force Microscope (AFM)
- Publishing: Microsoft Office, OpenOffice

IX. LANGUAGES

Greek (native language)
English (excellent)
Italian (fluent)
Spanish (basic)

X. MILITARY SERVICE

June 2006 - June 2007
Hellenic Air Force - Military Police as a non-commissioned officer

XI. REFERENCES

Available upon request